Form 3160-5
November 1983)
Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: Tenneco Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 790' FSL, 1850' FWL

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FARMINGTON RESOURCE AREA

5. LEASE DESIGNATION AND SERIAL NO.: SF-078417

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: San Juan Unit 28-7

8. FARM OR LEASE NAME:

9. WELL NO.: 6

10. FIELD AND POOL, OR WILDCAT: Blanco Mesaverde

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 16, T28N R7W

12. COUNTY OR PARISH: Rio Arriba | 13. STATE: NM

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6100' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other) plug off & sidetrack				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Tenneco requests permission to plug off, sidetrack and refrac according to the attached detailed procedure.

18. I hereby certify that the foregoing is true and correct

SIGNED Scott McKinney TITLE Senior Regulatory Analyst DATE 12/10/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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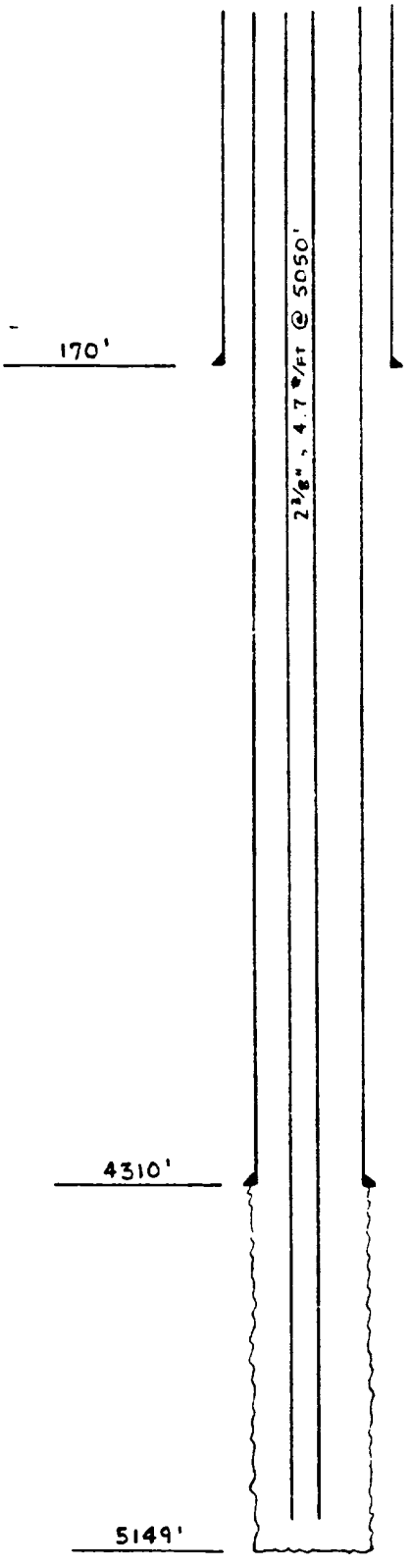
DEC 27 1985
OIL CON. DIV.
DIST. 3

Approved Signed STEPHEN MASON
for AREA MANAGER
FARMINGTON RESOURCE AREA

*See Instructions on Reverse Side

NMOCC

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



0442/3
LEASE San Juan 28-7 Unit
WELL NO. 6

CASING:

9 5/8 "OD, 25.4 LB, ____ CSG.W/ 125 SX
TOC @ Surf . HOLE SIZE ____ DATE 3/29/53
REMARKS ____

7 "OD, 23.0 LB, ____ CSG.W/ 300 SX
TOC @ 2610 . HOLE SIZE ____ DATE ____

TUBING:

2 3/8 "OD, 4.7 LB, J-55 GRADE, 8 RD, EUE CPLG
LANDED @ 5050 . SN, PACKER, ETC. ____

____ "OD, ____ LB, ____ GRADE, ____ RD, ____ CPLG
LANDED @ ____ . SN, PACKER, ETC. ____

DETAILED PROCEDURE

1. Prepare location by blading and installing anchors, if necessary. Install blowdown lines and blow well down.

2. MIRUSU. Kill tbg w/1% KCL water.
3. NDWH. NU 6" 3000 psi BOPE.
4. POOH laying down tubing. Visually inspect tbg on trip out. Note: If tbg is stuck, do not pull over 40K# as tbg may be in very poor condition RIH w/ jet cutter and attempt first shot at least 100 ' below the 7" csg shoe.

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DIST. 3

5. Set Baker cement retainer at 4110' (approx. 200' above the 7" csg shoe.) PU stinger, crossover, 2-7/8" drill pipe and TIH. Fill hole and PT BS to 1000 psi.

6. Squeeze open hole w/300 sxs Class B w/1% $CaCl_2$ (sidetrack plug). Sting out and reverse tbg clean. TOOH and LD stinger.

7. NDBOP and tbghd, NU 11"-2M x 11"-2M casing spool and BOPE. PT stack, blind and pipe rams to 1000 psi.

8. TIH w/6-1/4" bit and drill collars. Unload hole w/N_2. Drill out cement retainer, and dress off open hole plug to 15' below the 7" csg shoe. Blow hole clean and TOOH.

9. RU to drill w/gas. PU knuckle joint kick-off assembly. TIH. Survey as needed, make kickoff and angle building run.

10. Open hole to 6-1/4". Drill to TD w/air or foam. POOH for logs.

11. RUWL and run GR-DIL and GR-CDL-Caliper over entire open hole. TIH to TD, blow hole clean, POOH laying down, and RU to run csg.

12. Run 4-1/2" 10.5# K-55 STC csg as a long string as follows: guide shoe, float collar one jt up with 3 centralizers.

13. Cement as follows: Precede cement w/10 BBLS mud flush. Cement 4-1/2" in place using sufficient volume of 50:50 pozmix + 1/4# /sx flocele to raise cement to $\pm$ 2500'.

14. Set slips w/full csg weight. NDBOP and cut off 4-1/2" csg. NU tubinghead.

15. Load BS w/corrosion inhibited water and PT to 1000 psi. RDMORT.

16. MIRUSU. NUBOPE.

17. PU 3-7/8" bit, csg scraper, 2-3/8" 4.7# J-55 EUE 8 rd tbg and tally in hole. Roll hole w/ 1% KCL water. PT csg to 3500 psi.

18. Spot a sufficient quantity of 7-1/2% DI HCL to cover the perforated interval + 200'. POOH. LD bit and scraper.

19. RUWL. Run GR-CCL fr PBTD to 150' above the highest pay. Perf the Lower Mesaverde under lubricator from the top interval down using a 3-1/8" hollow carrier csg gun loaded 2 JSPF @ 120° phasing.

20. Acidize down csg w/20 gal per perf of 15% wgtd HCL containing 600# NACL/1000 gal & 1.5 1.1 SG RCN ball sealers per perforation. Displace at maximum rate w/MSP less then 3500 psi.

21. RIH w/junk basket on WL to recover ball slrs.

22. RU & frac Lower Mesaverde w/slickwater containing 1% KCL, 15#/1000 gal friction reducer & 2500#/ft 20/40 sand @ 1 BPM/perf; fluid/sand design on following page. Flush to 10 BBLS shy of top perf & close blind rams ASAP.

23. RUWL and RIH w/Baker 4-1/2" RBP. Set approx. 50' above top perf. Dump 2 sx frac sand on RBP, load csg w/1% KCL water. PT RBP to 3500 psi.

24. TIH w/2-3/8" tbg to approx 10' above the RBP and spot a sufficient quantity of 7-1/2% DI HCL to cover the top perf + 200'. POOH.

25. RUWL. Perforate the Upper Mesaverde under lubricator from the top interval down using a 3-1/8" hollow carrier csg gun loaded w/2 JSPF @ 120° phasing.

26. Acidize down csg w/20 gal per perf of 15% wgtd HCL containing 600# NaCl/1000 gal & 1.5 1.1 SG RCN ball sealers per perforation. Displace at max rate w/MSP less than 3500 psi.

27. RIH w/junk basket on wireline to recover ball sealers.

28. RU and frac Upper Mesaverde w/slickwater containing 1% KCL, 15#/1000/friction reducer, and 2500#/ft 20/40 sand @ 1 BPM/perf; fluid/sand design below. Flush to 10 BBLS shy of top perf. Shut blind rams ASAP.

29. Retrieve RBP.

30. TIH w/2-3/8" production string w/ pump out plug on bottom and SN 1 jt up.

31. CO to PBTD w/nitrogen foam. PU and set bottom of tbg within 20' of lowest perforation. Land tbg and NUWH.

32. Kick well around w/nitrogen and FTCU.

33. RDMOSU.

MESAVERDE FRAC DESIGN:

1. 2500# 20/40 sand per ft net pay.
2. 2 BPM per ft net pay
3. Fluid to contain 1% KCL, 15#/1000 gal friction reducer.

4. Schedule
   30% pad
   1 csg volume @ 1/2 ppg 20/40 sand
   1 csg volume @ 1 ppg 20/40 sand
   1 csg volume @ 1-1/2 ppg 20/40 sand
   Remains @ 2 ppg 20/40 sd